DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE:

BRMLB-9007-00(014) Fulton

OFFICE: Engineering Services

P.I. No.: 752015

Courtland Street Bridge Replacement

DATE: June 16, 2011

FROM:

Ronald E. Wishon, State Project Review Engineer

040

TO:

Bobby K. Hilliard, PE, State Program Delivery Engineer

Attn.: Albert Shelby

SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY ALTERNATIVES

The VE Study for the above project was held March 7-10, 2011. Responses were received on June 15, 2011. Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. The Project Manager shall incorporate the VE alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT#	Description	Potential Savings/LCC	Implement	Comments
A-8	Provide pedestrian access throughout construction	Cost increase \$(-20,000)	No	In coordination with Georgia State University, a pedestrian detour plan will be created that both facilitates student movement and limits the liability of the Department and the Contractor during the construction process.
B-1	Use Class A Concrete for the sidewalk on the bridge	Proposed = \$87,000 Actual = \$1,455	No	The cost comparison shown in the VE Study report simply compares the unit prices for Class AA and Class A concrete. The unit costs for these items include additional items such as stay-in-place forms. The savings must compare the true difference in actual material. In general, the actual material cost difference is an additional \$5/yd³. Based on the volume needed for the sidewalks on this project, the Class AA concrete will cost approximately \$1,500 more than Class A concrete.

B-2	Eliminate parapet alongside Library North building	\$32,000	No	The library is located a foot behind the existing back of the barrier. The barrier is placed between the sidewalk and the library to protect pedestrians from falls and to protect the structure from vehicular impact. In addition, the bridge and sidewalk would require additional width in the area along the library, thus reducing a significant part of the savings.
D-1	Use steel beams in lieu of Bulb Tee Modified 65 inch beams to span both MARTA and CSX railroad tracks	\$42,000	No	While using steel beams would simplify construction of this span, there will be additional time required for work over the railroad track for installing cross bracing and other structural members. Steel beams will be more expensive and require additional long term maintenance that would take place over CSX and MARTA rail lines. The proposed savings would be negated by the first cycle of maintenance.
D-2	Construct the Courtland bridge north of CSX railroad using Type III beams with eight 81 foot spans and one 85 foot span	\$368,000	No	The VE Study span arrangement places a bent directly in the entrance to the GSU parking deck across from the GSU Counseling Center and a bent in the sidewalk along the north side of Decatur Street. This arrangement requires the same number of bent locations as the existing configuration; therefore, the savings would be in the fabrication cost of the superstructure units. The study does not discuss reducing the number of beam lines; therefore the linear foot quantity used to compare the beams appears to have been an error (see attached cost worksheet D-2). The recommendation also assumes reduced caisson sizes for the difference between the BT 63 beams and the Type III beams but doesn't make a similar comparison between the Type III and Type I mod substructures. The comparisons will be similar and will make the cost of the substructure units almost identical. Additionally, the Type III beams would reduce the existing vertical clearance adjacent to the University Center by an additional 1'5". GSU allows deliveries and pickups in this area and the 10" vertical clearance would not be sufficient.

D-2.1	Construct Courtland bridge north of CSX railroad using Type II beams perpendicular to the roadway and the cap parallel to the roadway (trellis bridge)	Proposed = \$591,000 Actual = Cost increase -(\$1,900,000)	No	This alternative requires more structural units than the original design, thus making it more expensive when comparing the options strictly on construction material cost. The additional material for this type of construction north of Decatur Street alone is estimated to be slightly over \$950,000 (see attached estimate).
D-2.2	Salvage/strengthen (using micro piles and pier encasement) and reuse the existing columns and footings	Proposed = \$192,000 Actual = Cost increase -(\$92,000)	No	This alternative assumes an existing spread footing can be strengthened by installing micropiles to transfer the load. This option also assumes a design can be accomplished by incorporating the existing steel piles and encasing them in a concrete column. The micropile installation option has a similar risk of impacting subsurface utilities as the caisson option. The number of units it would replace, (10), does not suggest there would be any measurable time savings for construction. Without any information about the existing foundation it is not possible to know if the proposed retrofit is a suitable solution. It is possible shoring would be required, and that is not reflected in the savings. Similar to the calculations for D-2, this recommendation does not discuss reducing the number of beam lines; therefore the linear foot quantity used to compare the beams appears to have an error (see attached worksheet D-2.2). When the actual number of beams is considered, this option increases the cost of the project. Additionally, the Type II beams would reduce the existing vertical clearance adjacent to the University Center by an additional 9". GSU allows deliveries and pickups in this area and the 10" vertical clearance would not be sufficient.

D-3	Construct the Courtland bridge south of CSX railroad using Type III beams with three 85 foot spans	Proposed = \$168,000 Actual = \$31,400	No	This alternative requires one additional bent location and assumes the savings in the fabrication cost of the superstructure units would offset the cost of the additional substructure unit. The span over MARTA and CSX rail lines would require an additional 10' in length to account for the span difference. This would require either a larger pre-stressed beam (violating CSX vertical clearance requirements) or a steel beam alternative (increasing the cost of the structure and requiring additional long term maintenance). This would also require a longer wall, and the additional bent location would further restrict access by GBA and to the delivery locations at the Georgia Freight Depot. The VE calculations contained an error in the difference in beam lengths and did not account for the cost of the additional wall (see attached worksheet D-3).
D-3.1	Construct the Courtland bridge south of CSX railroad using BT 54 inch beams with three shorter 88 foot spans.	Proposed = \$17,000 Actual = Cost increase -(\$72,300	No	Similar to Alternative D-3, this alternative assumed the savings in the fabrication cost of the superstructure units would offset the cost of the additional substructure unit. The VE calculations contained an error in the difference in beam lengths thus affecting the actual cost difference (see attached worksheet D-3.1). Also, this alternative would require an additional bent location that would further restrict access by the GBA and to the delivery locations at the Georgia Freight Depot.

The Office of Engineering Services concurs with the Project Manager's responses.

Approved:

Gerald M. Ross, PE, Chief Engineer

BRMLB-9007-00(014) Fulton Implementation of Value Engineering Study Alternatives

P.I. No. 752015 Page 5

REW/LLM Attachments

Russell McMurry
Bobby Hilliard/Stanley Hill/Albert Shelby
Paul Liles/Ben Rabun/Bill Duvall/Bill Ingalsbe/
Jonathan Cox/Laura Rish
Lee Upkins/Dona Welch
Ken Werho
Lisa Myers
Matt Sanders

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE

BRMLB-9007-00(014), Fulton County

OFFICE Program Delivery

Courtland Street at CSX RR Bridge Replacement P.I. No. 752015

DATE J

June 10, 2011

FROM

Bobby K. Hilliard, PE, State Program Delivery Engineer Set S. H.

TO

Ron Wishon, State Review Engineer

SUBJECT

Value Engineering Study Report Responses

The Office of Program Delivery has received the Value Engineering Final Report dated March 23, 2011. The study developed seventeen alternatives to be evaluated. The attached responses from the engineering firm of record, Hatch Mott MacDonald, are based on a collaborative effort inclusive of the consultant firm, Hatch Mott MacDonald (Sean Garland), the Office of Bridge Design (Bill Duvall), the Office of Construction (Melissa Harper) and the Office of Program Delivery (Albert Shelby).

If there are any questions or concerns, please contact the project manager, Albert Shelby, at 404-631-1758.

S.H. BKH:SH:avs Attachments:

1. VE responses from Hatch Mott MacDonald

2. Concurrence from the Office of Bridge Design



Hatch Mott MacDonald

2550 Heritage Court, SE, Suite 250 Atlanta, GA 30339 T 770.952.1022 www.hatchmott.com

June 6, 2011

RE: Value Engineering Study Alternatives for Courtland Street Bridge Replacement, BRMLB-9007-00 (014), P.I. No. 752015

Hatch Mott MacDonald has received the initial Value Engineering Study Alternatives from MACTEC for the above mentioned project. Below are the recommendations along with Hatch Mott MacDonald responses.

1. Recommendation A-8: Construct a protected pedestrian walkway through the construction area between University Center and Library North.

VE Team Increase: \$20,000.

No, will not implement. In coordination with Georgia State University a pedestrian detour plan will be created that both facilitates student movements and limits the liability of the Department and the contractor during the construction process.

2. Recommendation B-1: Use Class A Concrete for the Sidewalks on the Bridge.

VE Team Savings: \$87,000.

No, will not implement. The cost comparison shown in the VE studies simply compares unit prices for Class AA and Class A as shown in the GDOT mean item summary. The comparison of cost for concrete on a sidewalk cannot be compared by simply comparing those cost since Class AA concrete, which is commonly used on the bridge superstructure, include cost for additional items including stay-in-place forms. The savings would need to compare the true difference in actual material and supplying of each concrete type. In general, the actual material cost difference between Class AA and Class A concrete is an additional \$5/yd³. Based on the volume needed for the sidewalks on this project, Class AA will cost approximately \$1,500 more than Class A concrete. Since the Class A concrete would only be called for on the sidewalk (which is a small volume compared to the entire project) the savings would probably be negated by the alternate mix design and manufacturing making the cost almost identical.

Revised Savings: $291yd^3 \times \frac{5}{y}d^3 = \frac{1,455}{1}$.

3. Recommendation B-2: Eliminate the bridge parapet alongside the Library North Building.

VE Team Savings: \$32,000.

No, will not implement. The library is located approximately a foot behind the existing back of barrier (see attached photo) with the distance increasing at the windows. The barrier is placed between the sidewalk and library to protect pedestrians from falls while protecting the structure from vehicular impact. In addition, the bridge and sidewalk would need to be widening in that area to reduce the opening thus reducing a significant portion of any potential savings.



4. Recommendation D-1: Use Steel Beams in-lieu-of Bulb Tee Modified 65-inch Beams to span over both MARTA and the CSX Railroad tracks.

VE Team Savings: \$42,000.

No, will not implement. While using steel beams in that span may be easier to erect, there will be additional time required over the tracks for installing cross bracing and other structural members. Steel beams will be more expensive and require additional long term maintenance that would take place over CSX Railroad and Marta rail lines. The 125'-0" long span would require at least 7 steel plate girders approximately 54" deep (an estimated total surface area of approximately 18,000 ft² including diaphragms, bearings, etc.) that would need to be inspected, maintained, and painted. With a \$3/sf cost for painting of the steel over the railroad, the proposed savings would be exceeded during the first painting and would require additional cycles over the lifetime of the structure.

5. Recommendation D-2: Construct the Courtland Street Bridge North of the CSX Railroad crossing (Pier 4) using only Type III Beams with eight, 81-foot spans and one, 85-foot span.

VE Team Savings: \$368,000.

No, will not implement. The arrangement calling for 1-85' span and 4-81' spans places a bent directly in the entrance to the GSU parking deck across from the GSU Counseling Center. It also places a bent in the sidewalk along the north side of Decatur Street. This arrangement requires the same number of bent locations as the existing configuration therefore assuming the savings would be in the fabrication cost of the superstructure units. The study does not discuss reducing the number of beam lines therefore the linear foot quantity used to compare the beams appear to have an error (see attached Worksheet D-2). The recommendation also assumes reduced caisson sizes for the difference between the BT 63 beams and the Type III beams but doesn't make a similar comparison between the Type III and Type I Mod substructures. The comparisons will be similar and with the number of units will actually make the cost of the substructure units almost identical. Additionally the Type III beams would reduce the existing vertical clearance adjacent to the University Center by an additional 1'-5" (approx. 10' vertical clearance) where GSU allows for deliveries and pickups.

 Recommendation D-2.1: <u>Alternate to D-2</u>. Construct the Courtland Street Bridge North of the CSX Railroad crossing (Pier 4) using piers set parallel to the roadway and Type II beams perpendicular to the roadway.

VE Team Savings: \$591,000.

No, will not implement. This recommendation requires more structural units than the original design thus making it more expensive when comparing the options strictly on construction material. The additional material cost for this type of construction north of Decatur Street alone is estimated to be slightly over \$950,000 (see attached estimate). The cost increase can only be offset by placing a value on construction duration. While the construction duration cost may not completely offset the material cost, the shortened duration in the major pedestrian traffic area of GSU would have significant value for the university.



South of Decatur Street does not have the level of construction restrictions as the north section. The VE proposed layout would require substantially more than the two substructure units that would be replaced in the original design. The additional material cost for this type of construction south of Decatur Street is estimated to be slightly over \$950,000 with less reduction in construction time if any at all. Based on this it is recommended that this type of construction not be considered.

Revised cost increase: \$1,900,000

 Recommendation D-2.2: <u>Alternate to D-2</u>. Salvage / strengthen (using micro piles or pier encasement) and reuse the existing columns and footings.

VE Team Savings: \$192,000.

No, will not implement. This recommendation assumes an existing spread footings can be strengthen by installing micropiles to transfer the load. This option also assumes a design can be accomplished by incorporating the existing steel piles and encasing them in a concrete column. All of the beams would be changed to Type II and the 19 substructure units that need to be strengthened with micropiles will not impact the existing subsurface utilities. The micropile installation has similar risk of impacting subsurface utilities as the cassion option. The number of units it would replace (10) does not suggest that there will be any measureable time savings for construction since the superstructure would have to be removed prior to removing the existing columns and bent caps. Without any information about the existing foundation it is not possible to know if the proposed retrofit is a suitable solution. If the footing needs to be extended to transfer the additional load from the heavier proposed Type II beams, shoring would be required that is not included in the price shown in the VE. Similar to the calculation done on Recommendation D-2, this recommendation also does not discuss reducing the number of beam lines therefore the linear foot quantity used to compare the beams appear to have an error (see attached Worksheet D-2.2). When the actual number of beams are considered this option increases the cost of the project. Additionally the Type II beams would reduce the existing vertical clearance adjacent to the University Center by an additional 9" (approx. 10' vertical clearance) where GSU allows for deliveries and pickups.

Revised cost increase: \$92,000

8. Recommendation D-3: Construct the Courtland Street Bridge South of the CSX Railroad crossing (Pier 3) using Type III beams with three, 85-foot spans.

VE Team Savings: \$168,000.

No, will not implement. The alternative requires one additional bent location than the existing configuration therefore assuming the savings in the fabrication cost of the superstructure units would offset the cost of the additional substructure unit. The span over Marta and CSX would need to get 10' longer to account for the span difference thus requiring either a larger prestressed beam (violating CSX vertical clearance requirements) or a steel beam alternative (increasing the cost of the structure and requiring additional long term maintenance). This alternative would require the wall to get longer and with the additional bent location would further restrict access by the GBA and delivery locations at the Georgia freight depot. The VE calculation shows an error in the difference in beam lengths and doesn't account for the cost of an additional wall (see attached Worksheet D-3).

Revised cost increase: \$31,400.



 Recommendation D-3.1: <u>Alternate to D-3.</u> Construct the Courtland Street Bridge South of the CSX Railroad crossing (Pier 3) using Bulb Tee 54-inch beams with 88-foot spans.

VE Team Savings: \$17,000

No, will not implement. Similar to Recommendation D-3, this alternative assuming the savings in the fabrication cost of the superstructure units would offset the cost of the addition substructure unit. The VE calculation shows a similar error in the difference in beam lengths thus affecting the actual cost difference (see attached Worksheet D-3.1). In addition to being more expensive this alternative would require an additional bent location that would further restrict access by the GBA and delivery locations at the Georgia freight depot.

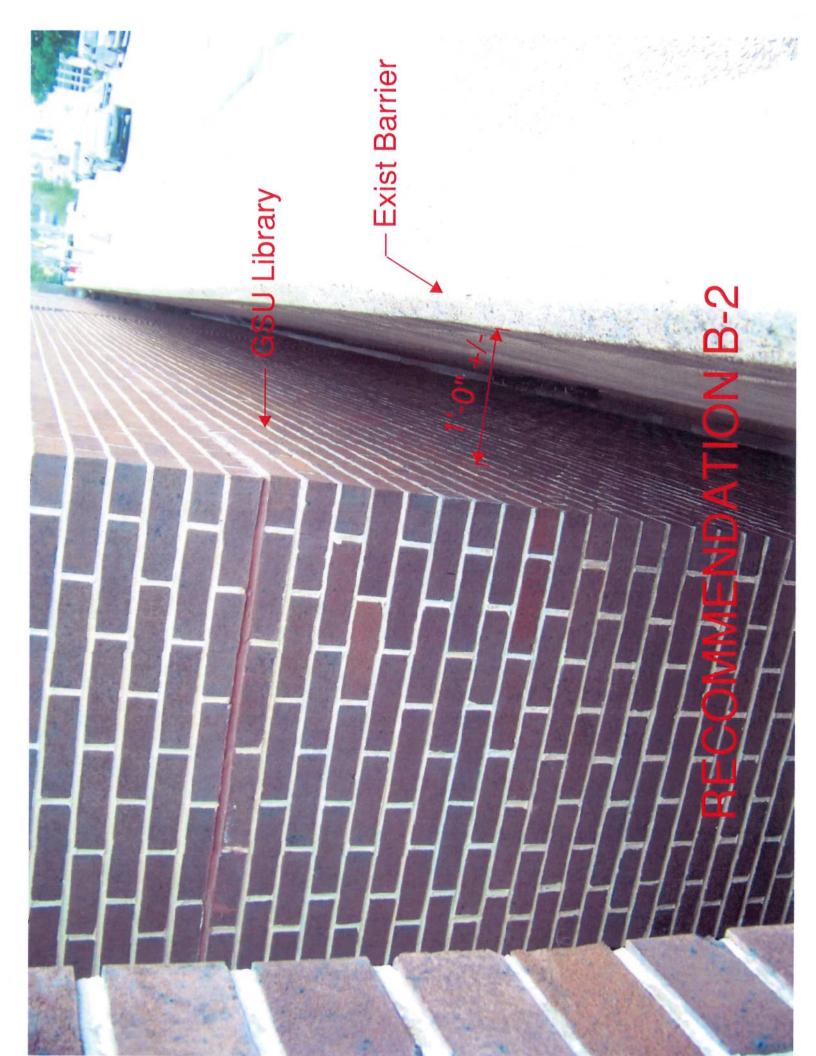
Revised cost increase: \$72,300.

If you have any questions or require additional information feel free to contact me @ (770) 200-1716.

Sean Garland, PE

Principal Project Manager Sean.Garland@hatchmott.com

cc: file



Project: Courtland Street Bi	ridge R		WORKS		Idea No.: Client: G Sheet 4 o	DOT	
CONSTRUCTION ELEM	ENT	ORIG	INAL EST	ГІМАТЕ	NE	W ESTIM	IATE
Item	Unit	No. Units	Cost/Unit	Total Cost	No. Units	Cost/Unit	Total Cost
Original Design:							
Bulb Tee 63-inch Beams	LF	1,747	\$377.36	\$659,248			
Bulb Tee 54-inch Beams	LF	808	1				
Type III Beams	LF	1,872		12 CA 18 CA 10 SA 11 CA 10 CA	_		
Type I Beams	LF	1,152					
Large Piers for BT 63" Beams	LS	3	\$173,000				
	100-100/		4110,000	Ψ. 1. 7,000			
			→ Total =	5579 _			
VE Design:					5579		1,583,209
Type III Beams	LF				5,131	\$283.78	\$1,456,075
Small Piers for Type III Beams	LS				3		\$417,000
							519,000
					10		
							2,102,209
SUBTOTAL				\$2,240,659			\$1,873,075
TOTAL ROUNDED				\$2,241,000			2,103,000 \$1,873,000

BRIDGE: Courtland Street Bridge

COUNTY: Fulton

P.I. NO: PROJECT:



JOB NO: 257724

DATE: 4/25/2011

ORIGINAL DESIGN

ITEM NUMBER	ITEM DESCRIPTION	UNITS	UNIT PRICE	QUANTITY	COST
500-1006	SUPERSTR CONCRETE, CL AA, BR NO -	LS	\$1,058.67	476	\$504,350
500-3002	CLASS AA CONCRETE	CY	\$1,059.00	290	\$306,581
507-9001	PSC BEAMS, AASHTO TYPE I, BR NO -	LF	\$208.00	1152	\$239,616
507-9003	PSC BEAMS, AASHTO TYPE III, BR NO -	LF	\$284.00	1248	\$354,432
524-0010	DRILLED CAISSON - 4.5'	LF	\$1,900.00	274	\$520,600.00
				TOTAL =	\$1 925 579

VE DESIGN OPTION

ITEM NUMBER	ITEM DESCRIPTION	UNITS	UNIT PRICE	QUANTITY	COST
500-1006	SUPERSTR CONCRETE, CL AA, BR NO -	LS	\$1,058.67	683	\$723,177
500-3002	CLASS AA CONCRETE	CY	\$1,059.00	777	\$822,737
507-9002	PSC BEAMS, AASHTO TYPE II, BR NO -	LF	\$246.00	1938	\$476,748
524-0010	DRILLED CAISSON - 4.5'	LF	\$1,900.00	450	\$855,000.00
				TOTAL =	\$2.877.663

Cost Difference = \$952,084

		COST	WORKS	HEET			
Project: Courtland Street	Bridge F	Replaceme	nt		Idea No.: Client: G Sheet 5 o	DOT	
CONSTRUCTION ELE	MENT	ORIG	INAL EST	ГІМАТЕ	NE	W ESTIM	IATE
Item	Unit	No. Units	Cost/Unit	Total Cost	No. Units	Cost/Unit	Total Cost
Original Design:							
Large Piers	LS	8	\$173,000	\$1,384,000			
Bulb Tee 63-inch Beams	LF	1,747	\$377.36	Control State State Annual Control			
Bulb Tee 54-inch Beams	LF	808	1				
Type III Beams	LF	1,872					
Type I Beams	LF	1,152		\$239,939			
			→ Total =	5579			
VE Design:							1000 2000 0000 0000
Strengthen Pier / Footing	LS				1	\$1,466,000	\$1,466,000
Longitudinal Pier Cap	LS				5579 1		\$359,000
Type II PSC Beams	LF				4,428	\$246.03	\$1,089,420 1,372,601
							1,012,001
SUBTOTAL TOTAL ROUNDED				\$3,105,659 \$3,106,000			3,197,601 \$2,914,420 3,198,000 \$2,914,000

		COST	WORKS	HEET				
Project: Courtland Street Br	ridge R	Replaceme	nt		Idea No.: Client: G Sheet 3 o	DOT		
CONSTRUCTION ELEMI	ENT	ORIG	INAL EST	TIMATE	NEW ESTIMATE			
Item	Unit	No. Units	Cost/Unit	Total Cost	No. Units	Cost/Unit	Total Cost	
Original Design:		4 055						
BT 72-inch Beams	LF	1,855 2,084	\$378.46	\$702,043.30 \$788,710.64				
Center Pier for BT 72" Beams	LS	1	\$179,245					
VE Design:								
Type III Beams	LF				1,785	\$283.78	\$506,547.30	
Small Piers for Type III Beams	LS				1,783	\$142,500		
Additional Embankment	LS				1	\$5,350		
Additional Pavement / Base	LS				1	1 \$2,940		
Additional Sidewalk	LS				1	\$407	\$408.00	
MSE WALL, 10-20 FT HT (w/ COPING)	SF				450	\$250	\$112,500	
				\$881,343.30			\$912,745.30	
SUBTOTAL				\$968,010.64			\$800,245.30	
TOTAL ROUNDED				\$881,350.00 \$968,000.00			\$912,750.00 -\$800,000.00	

		COST	WORKS		Idea No.:	D 2 1	
Project: Courtland Street Bi	ridge F	Replaceme	nt		Client: G Sheet 3 or	DOT	
CONSTRUCTION ELEMI	ENT	ORIG	INAL EST	ГІМАТЕ	NE	W ESTIM	IATE
Item	Unit	No. Units	Cost/Unit	Total Cost	No. Units	Cost/Unit	Total Cost
Original Design:		1,848		\$699,394.08			
BT 72-inch Beams	LF	-2,084		\$788,710.64			
Center Pier for BT 72" Beams	LS	1		\$179,300.00			
VE Design:							
Bulb Tee 54-inch Beams	LF				1,848	\$360.44	\$666,093.12
Small Piers for Type III Beams	LS				2	\$142,500	\$285,000.00
				\$878,694.08			
SUBTOTAL				\$968,010.64			\$951,093.12
TOTAL ROUNDED				\$878,700.00 \$968,000.00			\$951,000.00

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE

BRMLB-9007-00(014) FULTON COUNTY

OFFICE

Atlanta, GA

Courtland Street Bridge Replacement

DATE

June 8, 2011

P.I. No. 752015

RONFOR' B

Benjamin F. Rabun, III, P.E., State Bridge Engineer

то

Bobby Hilliard, State Program Delivery Engineer Attn: Albert Shelby

SUBJECT BRIDGE DESIGN VALUE ENGINEERING RESPONSE

The Value Engineering Study for the above referenced project dated March 23, 2011 contained nine VE Alternatives requiring responses from the Bridge Office: VE Alternatives A-8, B-1, B-2, D-1, D-2, D-2.1, D-2.2, D-3 and D-3.1. The consultant designer, Hatch Mott MacDonald, provided the Bridge Office with initial responses with their letter dated June 6, 2011. The Bridge Office concurs with the designer's recommendations.

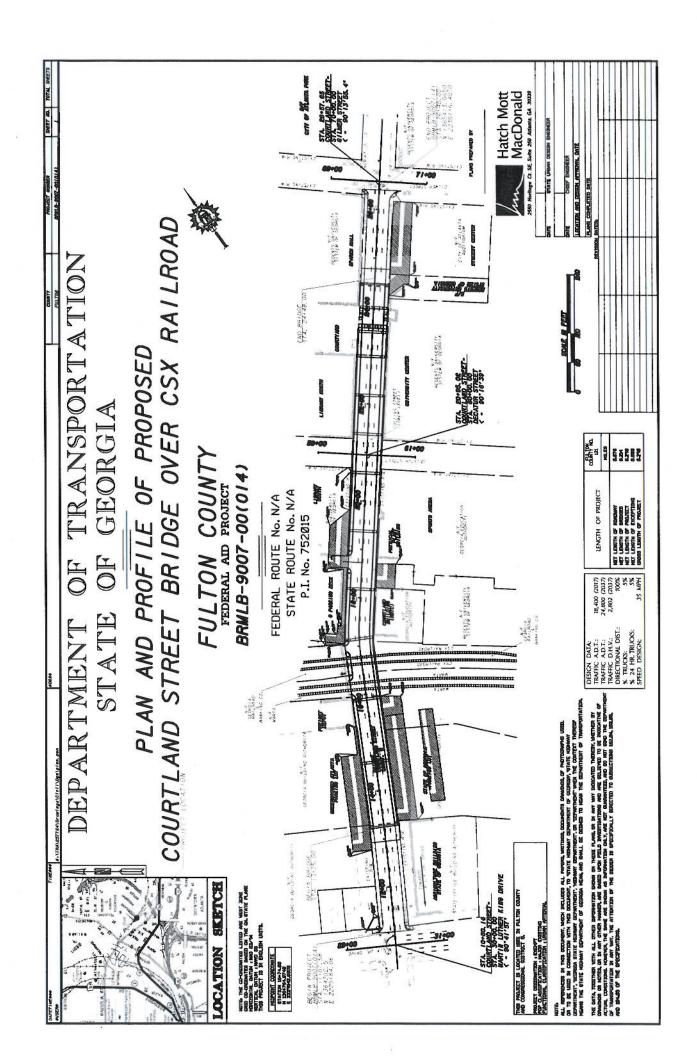
If you have any questions and/or comments, please contact Bill DuVall of the Bridge Design Office at (404) 631-1883 or at email address bduvall@dot.ga.gov.

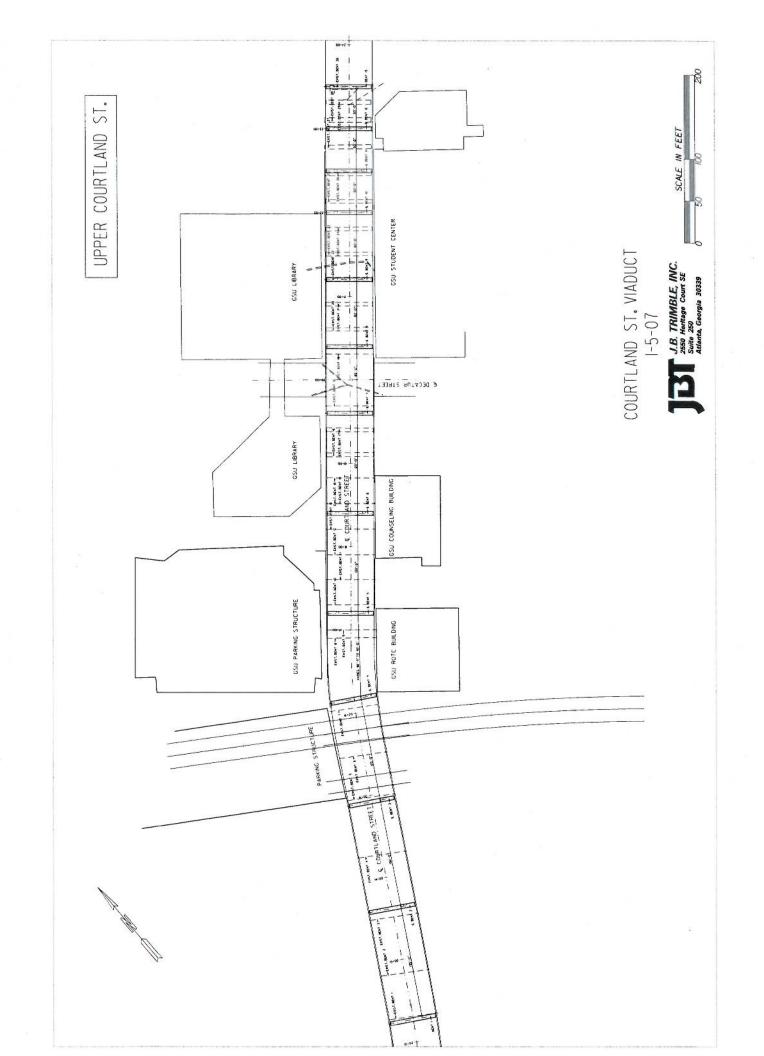
BFR:WMD

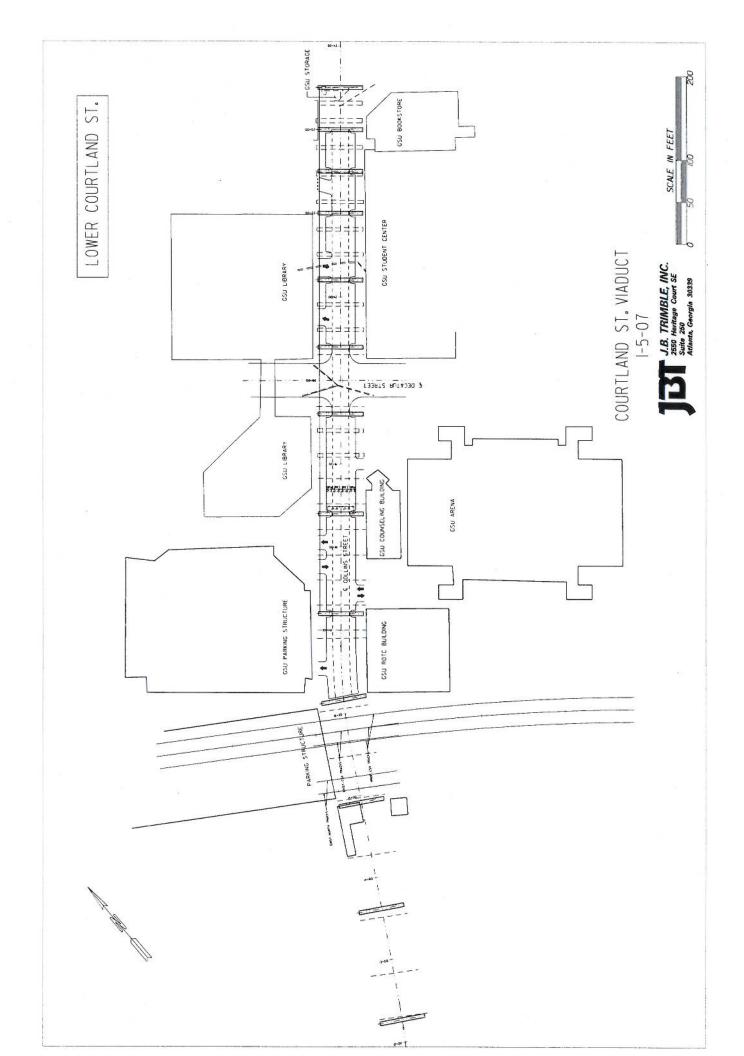
Attachment: draft responses from Hatch Mott MacDonald dated 6/6/11

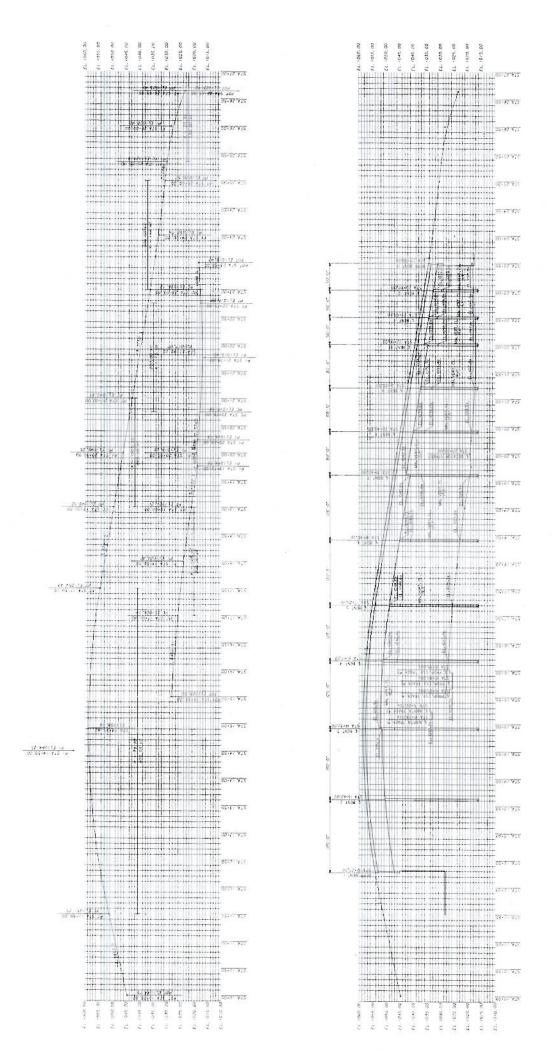
cc: Ron Wishon, Engineering Services Bill DuVall, Bridge Design











PRECONSTRUCTION STATUS REPORT FOR PI:752015-

PROJ ID	.:	752015-		CS 1868/COURTLAND STREET @ CSX RR	STREET @ C	SX RR							MGMT LET DATE	DATE:	05/15/2012	
COUNTY:	γ:	Fulton)				aciaa	- STOCY ATTROOPS			MGMT ROW DATE:	V DATE:	08/20/2010	
LENGTH (MI)	H (MI)	0.20		MPO:	ä	Atlanta TNfA	٧		A TOO	in Code.	ı	-	BASELINE LET DATE:	LET DATE:	08/10/2011	
PROJ NO.:	0::	BRMLB-9007-00(014)	17-00(014)	TIP#:	¥	AT-070			1901 0191	:10	, ,		SCHED LET DATE	DATE	12/12/2013	10000
PROJ MGR:	GR:	Shelby, Albert	¥	MOD	MODEL YR:	2020			CONG. DIST:	DIST:	c		MILIO LETES.	ċ	0	Star Chale
AOHD Initials:	nitials:	SSH		TYPE	TYPE WORK:	Bridges			BIKE:		>		WHOLEIS	u:	repare ri	Prepare Plans for Shell
OFFICE:	200	Program Delivery	livery	CON	CONCEPT:	BR REPL			MEASURE:	JRE:	ш		LET WITH:	*		
CONSU	CONSULTANT:	Consultant Design (DOT contract)	Design (DO		IG TYPE:	Replacement	ınt		NEEDS	NEEDS SCORE:	7					
SPONSOR:)R:	Atlanta		Prov.	Prov. for ITS:	z			BRIDG	BRIDGE SUFF: 4	49.19					
DESIGN FIRM:	FIRM:	Hatch Mott MacDonald, LLC	MacDonald		BOND PROJ:											
BASE	BASE	START	LATE	TASKS		ACTUAL START	ACTUAL FINISH	%				PROGRAMMED FUNDS	FUNDS			
				Concept Development			5	100	Activity	Approved	Proposed	Cost	Fund	Status	Date Auth	
				Concept Meeting PM Submit Concept Report	~ <u>-</u>	0	201000000	8 8	PE	2010	2010	1,268,047.00	LIIO AU	AUTHORIZED	8/5/2009	
			1	Concept Report Review and Comments Management Concept Approval Complete		5/5/1995	5/5/1995	001	CST	2017	2017	18,680,677.06		PRECST		
1/30/2009	3/17/2009	THE STATE OF	7/7/2011	Value Engineering Study		0,		83								
1/29/2009	11/18/2009		7/14/2011	Fublic Information Open House Held Environmental Approval		1/1/2011	8007/4/71	3 8							32	
1/20/2000	11/4/2000	110000	1,00,31	Field Surveys/SDE	_	12/15/1992	3/19/1993 1	100								
3/12/2009	9/30/2009	1107/1//	6/30/2011	Preliminary Bridge Design	2	2/7/2011		95								
1/29/2009	6/10/2009	7/1/2011	11/10/2011													
12/17/2009	12/17/2009 5/4/2012	5/4/2012	5/4/2012							Cost Es	Cost Estimate Amount			5.75	STIP AMOUNTS	200
4/9/2010	6/9/2010	2107/1/5	10/2/01/8	R/W Plans Preparation R/W Plans Final Annewal				8.	Activity	Amount	nut	Date	Activity		Cost	Fund
1/25/2010	1/27/2010	6/12/2012	6/14/2012	_					PE	\$1,268,047.00	7.00	4/8/2009	PE	0	0.00	L110
7/8/2010	8/4/2010	11/9/2012	12/6/2012	_				_	ROW	\$400,000.00	00		ROW	0	0.00	200
10/1/2010	2/22/2010 2/15/201	2/22/2010 2/15/2013	11/22/2013	Stake R/W Stides Foundation Investigation				0	CST	\$15,943,778.00	78.00	3/2/2009	CST	0	0.00	L110
1/28/2010	11/10/2010 6/15/2012	6/15/2012	2/28/2013	7												
3/23/2010	9/6/2010 8/8/2012	8/8/2012	1/22/2013	_				0								
12/9/2010	12/9/2010	3/29/2013	3/29/2013	FFPR Inspection Submit FFPR Responses (OES)				0 0								
PDD:	[010]	7 /AQE. UR	BAN CONS		/04							District Comments	mments			
Bridge:	WM	WMD 05/06/11 CONSUL - HMM	CONSUL -	НММ				_	Scone re defin	ed to include a	mtier bridge ner h	Court as a second to include entier bridge ner bridge maintenance renort	troner			
EIS:	CEI !	NotApvd Not	OnSched Au	CENotApvdNotOnSched Aug10 ROWCox 04.26.11				-	Stop Work issu	red 2-26-08 - P	Expired Contract.	Stop Work issued 2-26-08 - Expired Contract. Prior Knowledge contract NTP with JB Trimble on	contract NTP	with JB Trim	ble on	
LGPA:		ATLANTA SGN DO KOWIOTI	DO KOWIL	ATLANTA SGN DO KOW UTL & DETOURS 7-2-98 KESCISSION LETTER SENT 7-21-04	ELLER SENL	-21-04		_	8/31/09					404		
Programming:		/PE=5/27/92	ARC TIP #	PR2/PE=5/27/92 ARC TIP # AT70#1 7-2010#2 11-2010 CHANGED TO FOS PER FHWA 12-20-2010	O FOS PER FH	WA 12-20-20	010	_	VE study held	March 7-10, 2 011 CF annro	2011 - responses p	VE study held March 7-10, 2011 - responses pending agreement of Bridge Office. PCKF submitted 2/28/11 for 8/2011 CF annioval: 10/2011 ROW plans approval: 5/2012 SHFI F plans - mestions	of Bridge Off	Folans - mest	bmitted	
Railroad:								_	asked by OPC. (6/6/11)	(11/9/9)		the sale of the sale of				
Traffic Op:	SEN	SEND PLANS FOR REVIEW 12-13-07	OR REVIEW	V 12-13-07				_								
OST:	MC		0,55,101	recession of constant of Color				_								
Onling:	*13¢	3 (H85-W/V.	29); R/R BR	SUE LVI A&B Compi 01/25/08-50-Deep: r FF.Nd zndSub 005/11 #1363 (H85-W/V29); R/R BRIDGE; CONSULTANT				_								
Engr Services:		VE Report distributed: 3/31/11	uted: 3/31/1.	1												
Prel. Parcel CT:	:C:	7	Total Parc	Fotal Parcel in ROW System:	Cond.	Cond. Filed:			<	Acquired by:	1	207		7	DEEDS CT:	
Under Review:	iew:		Options - Pending:	Pending:	Reloc	Relocations:			*	Acquisition MGR:		Washington, Linda (LOC)	(TOC)			
Released:			Condemns	Condemnations- Pend:	Acquired:	red:			2	R/W Cert Date:	Į.					
					i.											